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relatively fragile wool fiber, so that a yarn considerably higher quality is produced insistently.

A third system has been developed for using combinations of basic-dyeable polyester with regular, dispersed-dyeable polyester. Interesting color effects can be achieved using this fiber mixture but it is essential that staining of the dispersed-dyeable polyester by the cationic dye be minimized. The regular, dispersed-dyeable fiber must be left either white, or dyed the correct color in contrast to the basic-dyeable fiber. In working out this system, it was necessary to develop a completely new and unusual carrier, Dextrasol 9256. When using this system, concluding Dextrasol 9256, an unusually vel application of cationic dyestuff may be achieved while holding staining of the gular-dyeable polyester to a much lesser degree than previously obtainable. At the same time dyeing time has been reduced to as much as two hours.

It can be seen that no single carrier is suitable for every situation. Best results will always be achieved by using products developed for a particular job.

other Considerations

It must also be noted here that although carrier selection plays a most important role in the dyeing of basic-dyeable polyester, the carrier is still only one part of the entire operation, and cannot be isolated from the effects of leveling and migrating agents and physical factors such as pH, temperature, time, liquor ratios, and other peculiarities of the equipment being used. With basic-dyeable polyester, particularly in blends with other fibers, it is necessary that the proper selection of chemicals and procedures be made, and that all factors be taken into consideration. It is really not possible to write about selection of a carrier without taking into consideration all the other inter-related parts of the system being observed. Proper manipulation of process variables, along with proper selection of chemical assistants and carriers can take much of the complexity and difficulty out of dyeing dyed polyester.
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Two permanently greased seals in the newly designed MOUNT HOPE® Wet Service Expander maintain positive, constant pressure against a special race, preventing entry of air, dust, or moisture. Seals are non-rotating to eliminate centrifugal distortions. Other long-life features: Expander never needs re-lubrication during service life; chemical resistant end cap; stainless steel protective plate for internal parts; high speed, free-turning, pre-lubricated ball bearings. Degree of bow and cover compound customized to your requirements.

Write for Technical Data Bulletin. Mount Hope Machinery Company, 19 Fifth Street, Taunton, Massachusetts 02780.
within limits of 0.75-1 in. versus trade acceptable quality of 1.25 in.

An important feature of the plant is the use of Maier large rolls (2,500 lb of fabric previously slit by a Maier slitter), specially designed to handle knits. Each roll has enough fabric to run for two hours which, coupled with continuous processing, markedly decreases both the possibility of soiling and the amount of second-hand.

The Bruckner tenter frames are now made in the U.S. with as many U.S.-made components as feasible in order to facilitate servicing of the equipment.

The tenter frames at Ottex have wire-mesh support screens for the fabric to ride on. This feature is designed to give tensionless handling for the knits and permits heavy overfeed while preventing the sagging normally expected from knits, especially when they are being steamened.

Currently, each week the Ottex finishing department is handling 80,000 lb of self-produced and 60,000 lb of outside-produced double knit fabrics. Every yard of fabric is fully inspected and manual handling is kept to the minimum in order to achieve the high quality desired.

(4.) Bruckner tenter with intensive steaming, bulking, and decatizing, replaces the “Tenterette.” Beneath the transporting wire mesh, which runs synchronized with tenter chain, is a series of steamers and alternating heating coils. Overfeed of up to 40% plus quantity use of low pressure, wet steam causes fabric to bulk and shrink giving a decatizing effect which provides the hand desired for many wool or acrylics and blends. The wire mesh permits the shrinking and bulking without the sagging experienced in other tenter frames. U.S.-made components of the tenter include Honeywell temperature controllers, Maxon gas burners, Reliance DC drives and motors, Cutler and Hammer starters on AC panels, Burlin high limit safety switches, and PCI-Minneapolis flame control systems. There is one burner/temperature controller and hot air circulation fan every five feet compared with the usual one unit per 20 ft.

(5.) Still for distillation and recovery of perchlorethylene for re-use in the Solvanit® Oil, wax and dirt removed from fabric by perchlorethylene is separated in still bottoms and removal as sludge to waste.